



#12

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

PATENT  
Attorney Docket No. 020399-000100US

Assistant Commissioner for Patents  
Washington, D.C. 20231

On Nov 26, 2002

TOWNSEND and TOWNSEND and CREW LLP

By: *Connie Larson*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:  
  
Andrew John Whitworth  
  
Patent No. 6,394,144, based on U.S. App.  
Serial No. 09/868,745,  
filed on June 20, 2001  
  
Issue Date: May 28, 2002  
  
For: PTFE TUBE

Examiner: Patrick Brinson  
  
Art Unit: 3752

**PETITION TO REQUEST FOR  
CERTIFICATE OF CORRECTION  
UNDER 37 CFR §1.182**

Box DAC  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

This is a Petition to request that the priority document for the subject application be provided on the face of the issued patent by way of a certificate of correction. The subject application was filed on June 20, 2001 and issued into U.S. Patent No. 6,394,144 on May 28, 2002. The subject application was based on a PCT application (PCT/GB99/04425) and was filed on December 24, 1999, which in turn claimed priority to GB 9828467.2, filed December 24, 1998 and GB 9927418.5, filed November 22, 1999 ("the priority documents"). During prosecution, the Declaration of the inventor inadvertently omitted the priority document, although reference to the priority document was clearly listed in the PCT filing. Accordingly, Applicant respectfully petitions to

12/05/2002 AMONDAF1 00000104 201430 09868745

01 FC:1460 130.00 CH

**RECEIVED**  
DEC 05 2002  
OFFICE OF PETITIONS



I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

PATENT

Attorney Docket No.: 020399-000100US

Assistant Commissioner for Patents,  
Washington, D.C. 20231

on

Aug 9, 2002

TOWNSEND and TOWNSEND and CREW LLP

By

Connie Larson  
Connie Larson

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Andrew John Whitworth et al.

Patent No.: 6,394,144

Issued: May 28, 2002

For: PTFE TUBE

Examiner: Patrick Brinson

Art Unit: 3752

REQUEST FOR CERTIFICATE OF  
CORRECTION UNDER §1.323

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Pursuant to 37 CFR §1.323 Applicant submits a Certificate of Correction correcting minor errors inadvertently left uncorrected by Applicant.

The desired corrections are set forth on form PTO 1050 and also on the first page of the Published PCT application. Copies of both are enclosed.

Please deduct the fee, pursuant to 37 CFR §1.20(a), of \$100.00 from deposit account 20-1430 and any additional fees associated with this Certificate.

Respectfully submitted,

Darin L. Gibby  
Reg. No. 38,464

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, 8th Floor  
San Francisco, California 94111-3834  
Tel. (303) 571-4000  
Fax (303) 571-4321  
DJG/cl

**RECEIVED**

DEC 05 2002

**OFFICE OF PETITIONS**

Andrew John Whitworth  
U.S. Patent No. 6,394,144  
Page 2

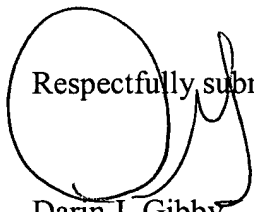
PATENT

include such information on U.S. Patent No. 6,394,144 by way of a certificate of correction under 37 CFR §1.182. A copy of the desired corrections are set forth on Form PTO 1050, enclosed herewith.

Also, Applicants wish to note that a request for a certificate of correction was previously filed with the Corrections Branch. A copy of the decision from the Corrections branch is enclosed. In the Decision, the Corrections Branch indicated that a petition should be filed to effectuate this change.

Please deduct the petition fee as set forth in 37 CFR §1.17(h), of \$130.00 from Deposit Account No. 20-1430. Please charge any additional fees or credit overpayment to Deposit Account No. 20-1430.

Respectfully submitted,

  
Darin J. Gibby  
Reg. No. 38,464

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, California 94111-3834  
Tel: (303) 571-4000  
Fax: (303) 571-4321  
DJG/cl  
DE 7088202 v1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.  
(Also Form PTO-1050)

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,394,144  
DATED : May 28, 2002  
INVENTOR(S) : Andrew John Whitworth; Dorothy Whitworth, Helen Hollingworth,  
Maura Lockwood

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

(30) Foreign Application Priority Data

December 24, 1998 (GB).....9828467.2  
November 22, 1999 (GB).....9927418.5

MAILING ADDRESS OF SENDER: Darin J. Gibby  
Townsend and Townsend and Crew LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, CA 94111-3834  
(303) 571-4000

PATENT NO. 6,394,144

No. of additional copies:



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.  
DE 7078832 v1

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : F16L 11/11	A1	(11) International Publication Number: WO 00/39494 (43) International Publication Date: 6 July 2000 (06.07.00)
--	----	---

(21) International Application Number: PCT/GB99/04425  
(22) International Filing Date: 24 December 1999 (24.12.99)  
(30) Priority Data:  
9828467.2 24 December 1998 (24.12.98) GB  
9927418.5 22 November 1999 (22.11.99) GB

(71) Applicants (for all designated States except US): WHITWORTH, Dorothy [GB/GB]; Beech Hill Farm, Longsleddale, Nr Kendal, Cumbria LA8 9BB (GB). HOLLINGWORTH, Helen [GB/GB]; Newlands, Levens, Nr Kendal, Cumbria LA8 8PA (GB). LOCKWOOD, Maura [GB/GB]; High Hampsfeld Farm, Nr Grange-over-Sands, Cumbria LA11 6LY (GB).

(71)(72) Applicant and Inventor: WHITWORTH, Andrew, John [GB/GB]; Poplar House, Hampsfell Road, Grange-over-Sands, Cumbria LA11 6BE (GB).

(74) Agent: W.P. THOMPSON & CO.; Coopers Building, Church Street, Liverpool L1 3AB (GB).

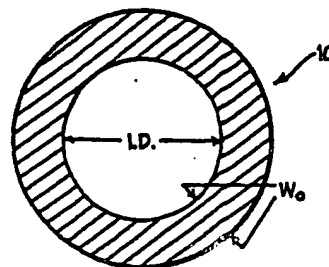
(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published  
With international search report.

(54) Title: A PIPE TUBE

## (57) Abstract

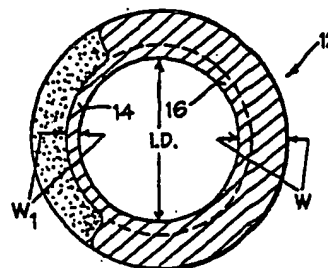
The present invention relates to a polytetrafluoroethylene (PTFE) tube, and more particularly to a PTFE tube for a flexible hose. In particular the invention relates to a PTFE tube having a smooth bore for use in the production of a lined hose assembly further comprising hose braids, external hose protection and end fittings. The PTFE tube comprises external roots and peaks, which tube is obtainable from a non-convoluted tube having an original wall thickness  $W_0$  and an internal diameter ID by a process in which a region of the tube is thinned to provide external convolutions with a root wall thickness  $W_1$  characterised in that the convoluted PTFE tube has an improved resistance, of greater than 7.6 %, to permeation by comparison with the non-convoluted tube, the comparison being made between tubes of (i) equal nominal bore ID; and (ii) equal weight of PTFE per unit length.



(iii) heat above the gel transition temperature in the absence of a restraining force

(i) apply deformation force at or above the gel transition temperature

(ii) cool to below the gel transition temperature with a restraining force while convolutions become stable





020399-00010005  
DJG

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY OF COMMERCE AND  
COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

Patent No. : 6,394,144  
Inventor(s) : Andrew John Whitworth  
Issued : May 28, 2002  
For: PTFE TUBE

REC'D

OCT 23 2002

Re. Request for Certificate of Correction

Consideration has been given your request under the provisions of Rule 1.323.

The request for Certificate of Correction is denied because applicant did not claim priority in the declaration and has not provided the priority documents. Therefore, no correction is in order here under United States Codes (U.S.C.) 254 or 255 and the Code of Federal Regulation (C.F.R.) 1.323.

In view of the foregoing, your request is hereby denied.

Further correspondence concerning this matter, should be directed to:

U.S. Patent and Trademark Office  
Washington, DC 20231  
Attn: Decisions & Certificates of Correction Branch



Cecelia B. Newman  
Decisions & Certificate  
of Correction Branch  
(703) 305-8047 or (703) 305-8309

Darin J. Gibby  
Townsend and Townsend and Crew  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, CA 94111-3834

ej



# FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 130

## Complete if Known

Application Number	09/868,745
Filing Date	September 20, 2001
First Named Inventor	Andrew John Whitworth
Examiner Name	Patrick Brinson
Group Art Unit	3752
Attorney Docket No.	020399-000100US

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ MoneyOrder ☐ Other ☐ None

☒ Deposit Account:

Deposit  
Account  
Number

20-1430

Deposit  
Account  
Name

Townsend and Townsend and Crew LLP

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments  
☒ Charge any additional fee(s) during the pendency of this application  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	740	2001	370	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	510	2003	255	Plant filing fee	
1004	740	2004	370	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$) 130

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims		Fees from below		Fee Paid
Total Claims	..	=		X		
Independent Claims		=		X		
Multiple Dependent				X		

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 130

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	400	2252	200	Extension for reply within second month	
1253	920	2253	460	Extension for reply within third month	
1254	1,440	2254	720	Extension for reply within fourth month	
1255	1,960	2255	980	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,280	2453	640	Petition to revive - unintentional	
1501	1,280	2501	640	Utility issue fee (or reissue)	
1502	460	2502	230	Design issue fee	
1503	620	2503	310	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	130
1807	50	1807	50	Petitions related to provisional applications	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	740	2809	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	740	2810	370	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	740	2801	370	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)130

## SUBMITTED BY

Name (Print/Type)	Darin J. Gibby	Registration No. (Attorney/Agent)	38,464	Telephone	303-571-4000
Signature		Date	11/26/03		

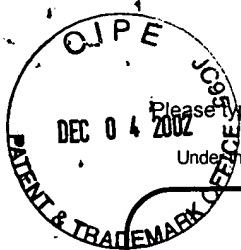
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. DE 7088968

RECEIVED

DEC 05 2002

OFFICE OF PETITIONS



DAE #

PTO/SB/21 (08-00)

Please type a plus sign (+) inside this box → ☒

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/868,745
Filing Date	September 20, 2001
First Named Inventor	Andrew John Whitworth
Group Art Unit	3752
Examiner Name	Patrick Brinson
Attorney Docket Number	020399-000100US

Total Number of Pages in This Submission

### ENCLOSURES (check all that apply)

- |   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><br><input type="checkbox"/> Fee Attached<br><br><input type="checkbox"/> Amendment / Reply<br><br><input type="checkbox"/> After Final<br><br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><br><input type="checkbox"/> Express Abandonment Request<br><br><input type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers (for an Application)<br><br><input type="checkbox"/> Drawing(s)<br><br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Request for Refund<br><br><input type="checkbox"/> CD, Number of CD(s) | <input type="checkbox"/> After Allowance Communication to Group<br><br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><br><input type="checkbox"/> Proprietary Information<br><br><input type="checkbox"/> Status Letter<br><br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br><br>Return Postcard<br>Petition to Request a Certificate of Correction |
|---|---|---|

Remarks

The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm and Individual name	Townsend and Townsend and Crew LLP Darin J. Gibby	Reg. No. 38,464
Signature		
Date	11/26/02	

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on this date:

11-26-02

Typed or printed name	Cornie Larson	Date	11-26-02
Signature			

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

DE 7088066 v1

RECEIVED

DEC 05 2002

OFFICE OF PETITIONS